



ООО «Полимер Экспорт»

ПРОМЫШЛЕННЫЕ ЛАКОКРАСОЧНЫЕ ПОКРЫТИЯ

8 (4932)773-503



raum-profile.ru  
lnmarketing@gk-rp.ru

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Manufacturer: Russian Federation

ТУ 20.30.22-008-69372620-2021

## Enamel Polytex ST G95

### CERTIFICATE

Certificate of conformity to requirement documents is re-issue.  
State Registration Certificate № RU.8.08.09.008.E.000041.02.22 от 11.02.2022 г.  
Safety data sheet of chemical products from 28.01.2022.  
MSDS №69372620.20.85257 от 14.11.2023 г.  
System including enamel «Polytex» and primer «Eppex» undergone accelerated environmental tests in «LKP-Khotkovo-Test», LLC NPO «LKP» to confirm projected lifetime of the coating – 20 years.

### DESCRIPTION

Two component polyurethane enamel, hardened by aliphatic polyisocyanate with high gloss grade.

### FIELDS OF APPLICATION

**Polytex ST G95 enamel is used to form high-gloss (with a gloss of  $\geq 95\%$ ) finishing coatings with high requirements for appearance.**

It is used to paint commercial vehicles, special equipment, rolling stock (mainly motive-power units and passenger compartments), large-sized vehicles, antenna-mast, support and modular structures as well as other primed metal surfaces with high requirements for appearance.

The enamel coating has an even gloss, accelerated open time, excellent adhesion, excellent resistance to shocks, bends and other mechanical impacts.

**Information on the material resistance to various media is available on request.**

Main fields of application: mechanical engineering, power engineering, railway transport facilities.

### TECHNICAL DATA

Colour	Colour list of RAL	
Gloss	G95: $95 \pm 3$ ед.	
Mass fraction of dry residue component A	50-60%	
Adhesion to metal (GOST 15140), no more	1 point	
Density component A	$1,07 \pm 0,05$ g/cm <sup>3</sup>	
Density components A+B	$1,10 \pm 0,05$ g/cm <sup>3</sup>	
Max. one layer thickness, viscosity 25 s	100 microns wet layer	
Dry volume residue	45 $\pm$ 5%	
Dry film thickness and estimated consumption	Dry film thickness, microns	Estimated consumption, g/m <sup>2</sup>
		min 40 100
		max 80 200
Hardener	Polytex ST, Polytex ST2	

Due to the wide range in color and / or gloss, this description is informative.  
Certificate of quality is the document confirming the quality of each production lot.

### INSTRUCTION FOR USE

Two component polyurethane enamel Polytex ST G95 is applied on primed surface. The surface can be abrasive blasted with grain P-180 to P-320.

### CONDITIONS

Basis temperature higher than dew point no less than 3°C.  
Ambient temperature from +5°C to +30°C.  
Relative air humidity no more 80%.

### APPLICATION

#### Blending

Polyurethane enamel consists of two components: component A - basis, component B - hardener. Before use, pre-mix component A with a low-speed drill with mixing nozzle,



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then mix with component B in stoichiometric ratio in the delivery form. Mix the resulting material thoroughly until smooth. After the hardener is added into the semi-finished product, the material should be allowed to stand for at least 5-10 minutes.

<b>Proportions</b>	<b>Hardener PolytexST</b> 100:14 by weight 7,5:1 by volume <b>hardener PolytexST2</b> 100:11 by weight 10:1 by volume
<b>Pot life at 20°C, no less</b>	7 hours
<b>Air spraying</b>	Operation viscosity: 18-25s Thinning: 10-30% Nozzle diameter: 1,5-1,7 mm Initial pressure: 3-4 atm
<b>Air-free spraying</b>	Nozzle diameter: 0,111-0,513 mm Initial pressure: 120-140 atm
<b>Brush, roller</b>	Can be recommended for small and hard-to-reach areas. Thin the primer-enamel depending on the working conditions when using brush.
<b>Thinner</b>	Formula thinner Polytex, Polytex SLOW.
<b>Cleaner</b>	Formula thinner Polytex, thinners of type P4, P5.
<b>Finishing</b>	Tubing, pistol and other spraying tools must be cleaned after using.
<b>Cleaning</b>	Clean straight after using due to painting equipment manual.

#### DRYING TIME

<b>Surface temperature</b>	<b>+5°C</b>	<b>+10°C</b>	<b>+20°C</b>	<b>+30°C</b>	<b>+40°C</b>
Degree 1 (GOST 19007)	4 h	2 h	40 min	30 min	30 min
Degree 3 (GOST 19007)	8 h	4 h	3 h	1,5 h	40 min
Minimum recoating interval	2 h	1 h	30 min	30 min	20 min
Start of operation	14 d	10 d	7 d	7 d	7 d

**Minimum recoating interval:** the minimum recommended time the next coat to be applied.

**Start of operation:** the minimum time the coating to be exposed to a given environment.

These data should be considered only as indicative for a wet film thickness of 100 microns.

#### PACKAGE SIZE

Metal euro bucket 21 l: basis 16kg  
Metal bottle 3 l: hardener 2,3 kg (Hardener Polytex ST)

Metal euro bucket 21 l: basis 16 kg  
Metal bottle 3 l: hardener 1,8 kg (Hardener Polytex ST2)

#### STORAGE

Store in a tightly closed container in a closed dry room at a temperature from - 40 ° C to + 40 ° C, away from sources of ignition, protecting from mechanical damage, direct sunlight and moisture.

#### GUARANTEED STORAGE LIFE

Polytex ST G95 basis (component A) guaranteed shelf life is 24 months from the date of manufacture, subject to the consumer's compliance with the rules of transportation and storage

Polytex ST, Polytex ST2 hardener (component B) guaranteed shelf life is 24 months from the date of manufacture, subject to the consumer's compliance with the rules of transportation and storage.



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#### HEALTH AND SAFETY

When painting work, use personal protective equipment (respirators, gloves, glasses, etc.). Work inside the room should be carried out with artificial (local, general) or natural ventilation. Use the enamel only in places without sources of open fire and ignition. Avoid contact with skin or eyes. In case of skin contact immediately wipe with a rag or cotton swab, rinse thoroughly with soapy water, do not use solvents. In case of eyes contact rinse with clean water for at least 10 minutes, consult a doctor. In case of ingestion, consult a doctor.

#### RECYCLING

Packing materials are recycled as consumer waste.

#### Further Information.

The recommendations above are based on our own research and our best knowledge but don't fully guarantee any particular case as it depends on the quality, friability and porosity of the base. The local working conditions and methods may vary and are beyond our control. Therefore we cannot be held responsible for the actual work on the site.

The information is currently updating.



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